Installation

Ripples requires a -12V/+12V power supply (2x5 pin connector). The red stripe of the ribbon cable (-12V side) must be oriented on the same side as the "Red stripe" marking on the module and on your power distribution board.

The module draws **35mA** from both the **+12V** and **-12V** supply rails.

Calibration

If necessary, adjust the trimmer on the left side of the module so that the tone emitted by the filter (when it self-oscillates) tracks a CV sent to the V/OCT CV input.

Online manual and help

The full manual can be found online at mutable-instruments.net/modules/ripples/manual

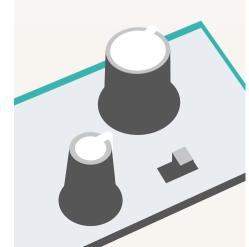
For help and discussions, head to mutable-instruments.net/forum/

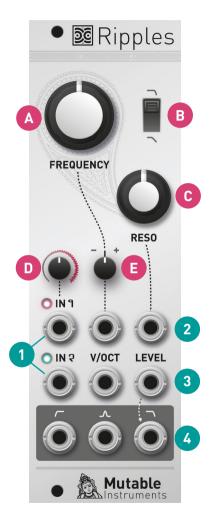


Please refer to the online manual for detailed information regarding compliance with EMC directives









Controls

- A. Cutoff frequency.
- **B. Filter slope**. The lower position corresponds to a 12 dB/octave slope [2-pole], the upper position to a rounder 24 dB/octave (4-pole). The **BP** and **LP** outputs are affected.
- **C. Resonance**. Goes up to self-oscillation.
- **D. Input 1 level**, with a tasty analog soft-clipping.
- **E. FM Attenuverter.** Adjusts the amount and polarity of frequency modulation from the corresponding CV input.

Inputs and Outputs

- **1. Audio inputs.** Input 1 goes through a soft-clipping circuit, while input 2 is always clean.
- **2. CV inputs** for cutoff modulation, resonance, cutoff modulation with V/Oct tracking.
- **3. Voltage controlled gain** for the LP output.
- **4. HP, BP and LP filter outputs.** The slope of the HP output varies with the resonance.